

UNITED STATE DEPARTMENT OF COMMERCE

Pat nt and Trademark Offic

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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO.

09/351,160 07/12/99 NISHIJIMA M 0819-261

MMC2/0801

GERALD J FERGUSON JR SIXBEY FRIEDMAN LEEDOM & FERGUSON P C 8180 GREENSBORO DRIVE SUITE 800 MCLEAN VA 22102 EXAMINER

OWENS, D

ART UNIT PAPER NUMBER

DATE MAILED:

08/01/01 **/5**

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.		Applicant(s)
**		Application No.	
Office Action Summary		09/351,160	NISHIJIMA, MASAAKI
<i>)</i>	Onice Action Summary	Examiner	Art Unit
	The MAIL INC DATE of this communication app	Douglas W Owens	2811
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status			
1)[🛛	Responsive to communication(s) filed on 11 J	<u>luly 2001</u> .	
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4)⊠ Claim(s) <u>23-27,29,32 and 34-40</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) 23-27,29,32 and 35-40 is/are allowed. BEST AVAILABLE COPY			
6)⊠ Claim(s) <u>34</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.			
· -			
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of:			
	1. Certified copies of the priority documents	s have been received	
2. Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).			
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 			
Attachment(s)			
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) · Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claim 34 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claim 34 requires that a conductor line be formed on a dielectric layer comprising two or more dielectric layers with mutually different dielectric constants. The specification only provides for forming a conductor line on a first dielectric layer with one dielectric constant and forming a second dielectric layer with a different dielectric constant from the first dielectric layer over the conductor line and first dielectric layer. Additionally, the specification only provides for forming two dielectric layers with mutually different dielectric constants, not two or more.

Allowable Subject Matter

- 3. Claims 23-27, 29, 32 and 35-40 are allowed.
- 4. The following is a statement of reasons for the indication of allowable subject matter: the most closely related art, US patent No. 6,046,503 to Weigand et al. teaches a teaches a semiconductor device, comprising a conductor layer, a dielectric film that is a composite of two layers, and a conductor line. Weigand et al. does not teach a composite dielectric film comprising a first dielectric film and a second dielectric film on

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the side portions of the first dielectric film wherein the first and second dielectric films have different dielectric constants. Nor does Weigand et al. teach a composite dielectric film wherein one of the dielectric films comprising the composite film has a dielectric constant larger than 10.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 703-308-6167. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor. Tom Thomas can be reached on 703-308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

DWO July 30, 2001 Steven Loke Primary Examiner